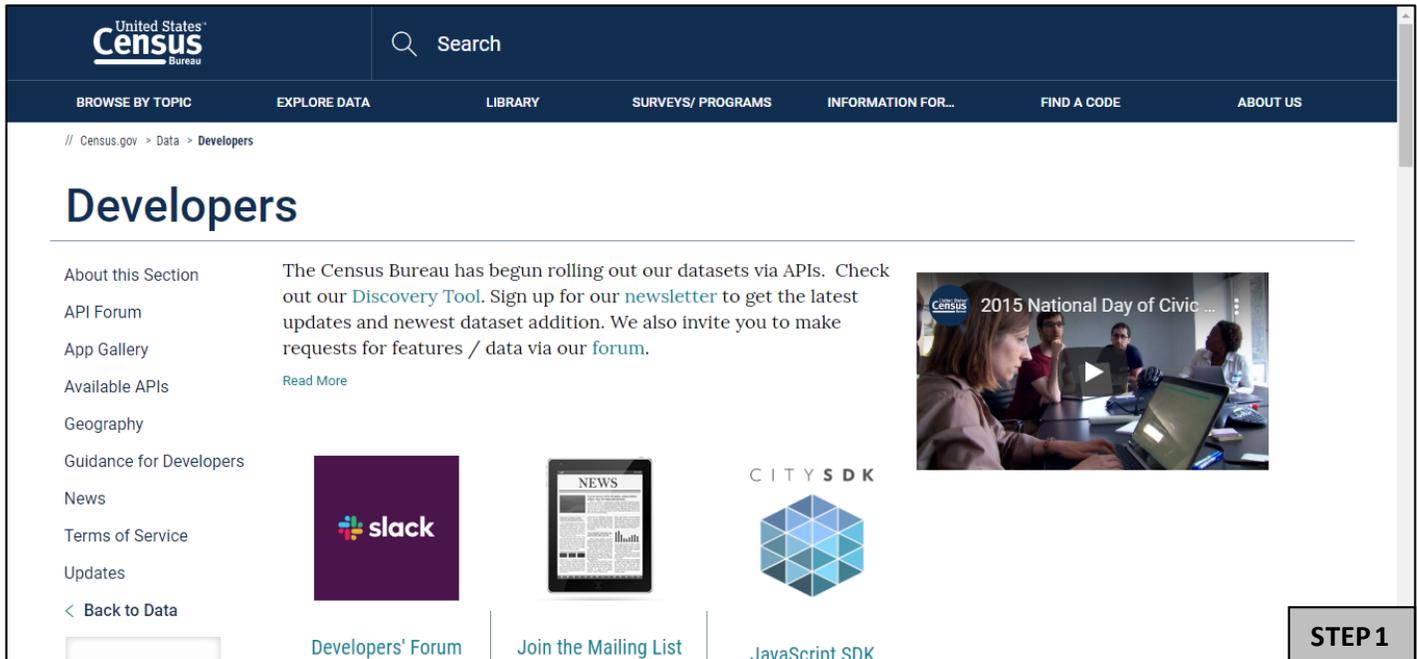


Instruction for Downloading Data from the Census Data API: Decennial Census Self-Response Rates (2020) for All Counties in Florida

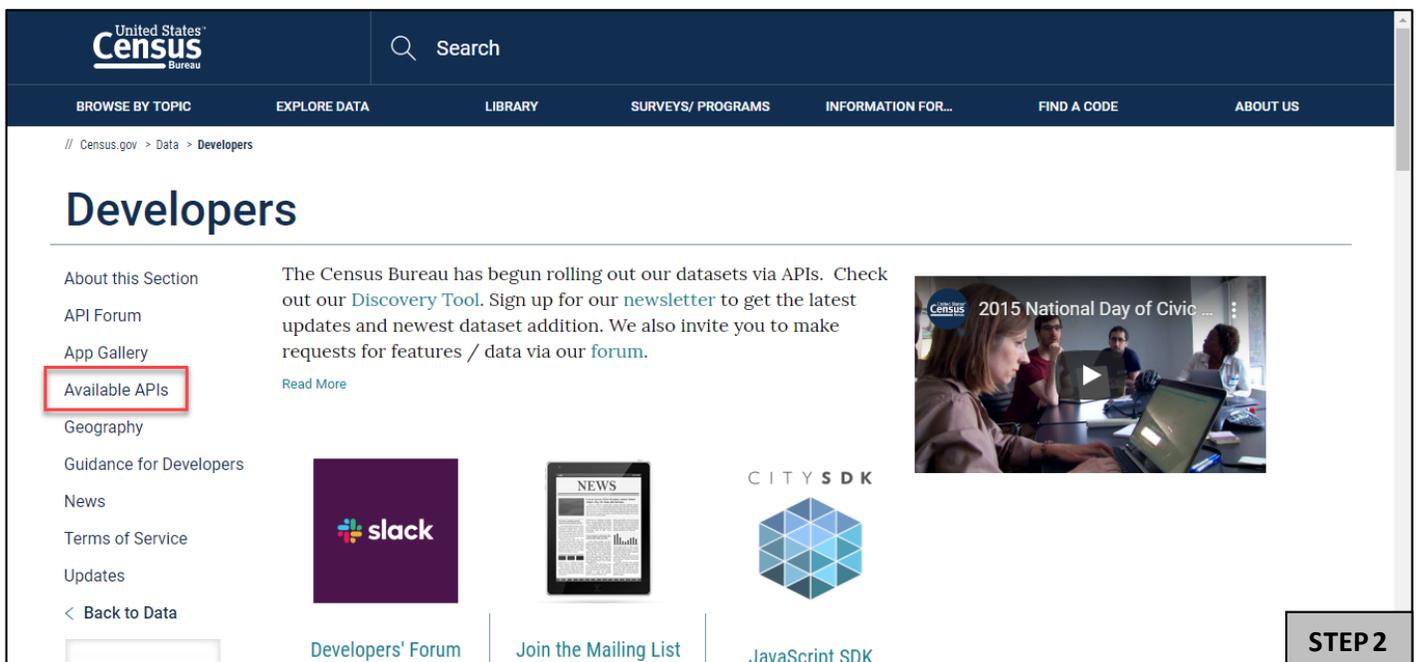
Follow these steps for building an API call (or a URL) for pulling data from the Decennial Census Self-Response Rates (2020) for All Counties in Florida.

Step 1: Using Chrome web browser, go to the census.gov Developers Page at: <https://www.census.gov/developers/>.



The screenshot shows the top navigation bar of the Census.gov Developers page. The main navigation includes: BROWSE BY TOPIC, EXPLORE DATA, LIBRARY, SURVEYS/ PROGRAMS, INFORMATION FOR..., FIND A CODE, and ABOUT US. Below this is a breadcrumb trail: // Census.gov > Data > Developers. The main heading is "Developers". On the left is a sidebar menu with items: About this Section, API Forum, App Gallery, Available APIs, Geography, Guidance for Developers, News, Terms of Service, Updates, and < Back to Data. The "Available APIs" item is highlighted with a red box. The main content area contains a paragraph about the Census Bureau's API datasets, a "Read More" link, and a video player titled "2015 National Day of Civic...". Below the video are three promotional cards: "Developers' Forum" with a Slack logo, "Join the Mailing List" with a "NEWS" tablet icon, and "JavaScript SDK" with a "CITY SDK" logo. A grey box in the bottom right corner contains the text "STEP 1".

Step 2. On the left side of the screen, click on "Available APIs".



This screenshot is identical to the one above, but with the "Available APIs" item in the left sidebar menu highlighted with a red box. The rest of the page content, including the navigation bar, breadcrumb trail, main heading, and promotional cards, remains the same. A grey box in the bottom right corner contains the text "STEP 2".

Step 3: Scroll down the page and click on Decennial Census Self-Response Rates (2020, 2010).

NOVEMBER 21, 2019
County Business Patterns and Nonemployer Statistics (1986-2017)
 Annual statistics on U.S. businesses with and without paid employees or payroll at detailed levels of geography and industry. Both surveys use NAICS codes.

SEPTEMBER 15, 2016
Decennial Census (2010, 2000, 1990)
 Population data by sex, age, race, Hispanic origin and more. Housing data by occupancy, vacancy status, and tenure. Highest geographic resolution (all levels).

MARCH 20, 2020
Decennial Census Self-Response Rates (2020, 2010)
 Self-response rates as a reference point for states, counties, cities, census tracts, and various other geographies around the country.

DECEMBER 15, 2016
Decennial Census Surname Files (2010, 2000)
 Tabulations of all surnames occurring 100 or more times in the 2010 Census and Census 2000 returns are provided at the national level only.

SEPTEMBER 19, 2019
Economic Census (2017, 2012, 2007, 2002)
 Economic and business data, down to the county level, includes number of establishments, sales and receipts, annual payroll, number of employees and more.

[Economic Indicators \(Time Series: various years - present\)](#)

STEP 3

Step 4. Scroll down until you see “Decennial Self-Response Rates 2010.” Click on api.census.gov/data/2020/dec/responserate.html

2020
2010

2020

Decennial Self-Reponse Rates 2020

- API Call: api.census.gov/data/2020/dec/responserate
- Examples and Supported Geographies:
api.census.gov/data/2020/dec/responserate.html
- Variables: api.census.gov/data/2020/dec/responserate/variables.html
- Example call:
[api.census.gov/data/2020/dec/responserate?
 get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=state:*&
 key=YOUR_KEY_GOES_HERE](https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=state:*&key=YOUR_KEY_GOES_HERE)

STEP 4

Step 5. Click on “examples.”

Census API: Datasets in /data/2020/dec/responserate and its descendants

Title	Description	Vintage	Dataset Name	Dataset Type	Geography List	Variable List	Group List	Examples	Developer Documentation	API Base URL
Decennial Census: 2020 Decennial Self-Response Rate	Daily Decennial Self-Response Rates	2020	dec-responserate	Aggregate	geographies	variables	groups	examples	documentation	https://api.census.gov/data/2020/dec/responserate
1 dataset										

STEP 5

Step 6. Under state> county. Copy/paste the URL into Firefox or Chrome if you are not already using these web browsers.

https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE

We are going to use this URL to build an API call for decennial census self-response rates (2020) for all counties in Florida.

Census API: Examples for /data/2020/dec/responserate

Geography Hierarchy	Geography Level	Example URL
(default geography)	N/A	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&key=YOUR_KEY_GOES_HERE
us	010	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=us:*&key=YOUR_KEY_GOES_HERE
region	020	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=region:*&key=YOUR_KEY_GOES_HERE
state	040	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=state:*&key=YOUR_KEY_GOES_HERE
state> county	050	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&key=YOUR_KEY_GOES_HERE
state> county> county subdivision	060	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county%20subdivision:*&in=state:09&key=YOUR_KEY_GOES_HERE
state> county> tract	140	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=tract:*&in=state:01&key=YOUR_KEY_GOES_HERE
state> place	160	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=place:*&key=YOUR_KEY_GOES_HERE
state> consolidated city	170	https://api.census.gov/data/2020/dec/responserate?get=DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=consolidated%20city:*&in=state:21&key=YOUR_KEY_GOES_HERE

STEP 6

Step 7. There are three parts of the URL that you will need to change:

- First, add the geographic area name, NAME, to the URL.
At the (**?get=**) portion of the URL add "**NAME,**" Adding NAME will give us the labels associated with the geographies instead of only the geographic code.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:*&key=YOUR_KEY_GOES_HERE

- Since we want to build a URL for all counties in Florida, change the (**=state:***) to (**=state:12**).

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12&key=YOUR_KEY_GOES_HERE

- Last, delete the portion of the URL, **&key=YOUR_KEY_GOES_HERE**.

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Step 8: After making these adjustments to the URL, the final query is:

https://api.census.gov/data/2020/dec/responserate?get=NAME,DRRALL,CRRINT,RESP_DATE,CRRALL,GEO_ID,DRRINT&for=county:*&in=state:12

Hit the Enter key to pull the results. The results are in json format. Below are the first few lines.

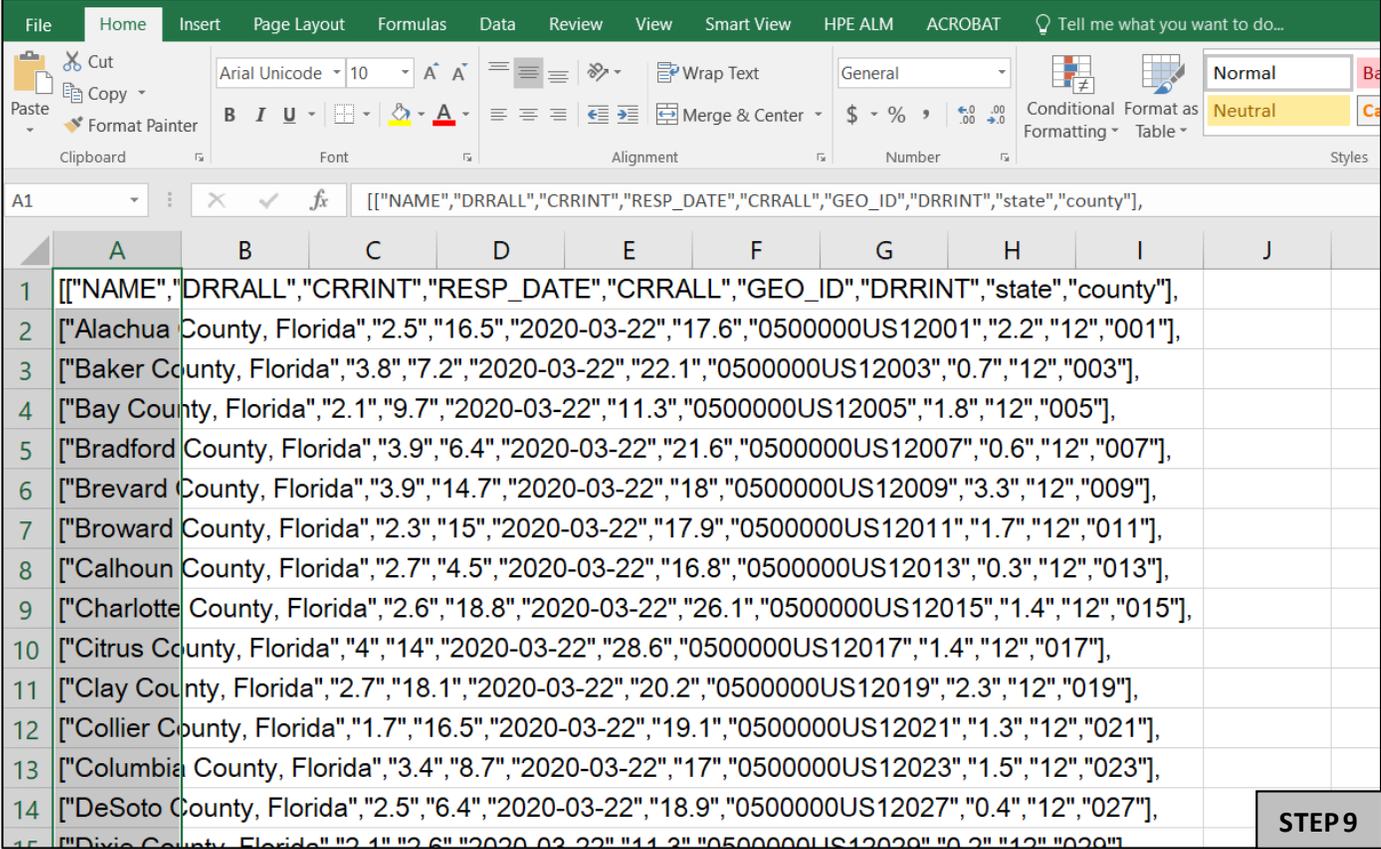
```

[["NAME","DRRALL","CRRINT","RESP_DATE","CRRALL","GEO_ID","DRRINT","state","county"],
["Alachua County, Florida","2.5","16.5","2020-03-22","17.6","0500000US12001","2.2","12","001"],
["Baker County, Florida","3.8","7.2","2020-03-22","22.1","0500000US12003","0.7","12","003"],
["Bay County, Florida","2.1","9.7","2020-03-22","11.3","0500000US12005","1.8","12","005"],
["Bradford County, Florida","3.9","6.4","2020-03-22","21.6","0500000US12007","0.6","12","007"],
["Brevard County, Florida","3.9","14.7","2020-03-22","18","0500000US12009","3.3","12","009"],
["Broward County, Florida","2.3","15","2020-03-22","17.9","0500000US12011","1.7","12","011"],
["Calhoun County, Florida","2.7","4.5","2020-03-22","16.8","0500000US12013","0.3","12","013"],
["Charlotte County, Florida","2.6","18.8","2020-03-22","26.1","0500000US12015","1.4","12","015"],
["Citrus County, Florida","4","14","2020-03-22","28.6","0500000US12017","1.4","12","017"],
["Clay County, Florida","2.7","18.1","2020-03-22","20.2","0500000US12019","2.3","12","019"],
["Collier County, Florida","1.7","16.5","2020-03-22","19.1","0500000US12021","1.3","12","021"],
["Columbia County, Florida","3.4","8.7","2020-03-22","17","0500000US12023","1.5","12","023"],
["DeSoto County, Florida","2.5","6.4","2020-03-22","18.9","0500000US12027","0.4","12","027"],
["Dixie County, Florida","2.1","2.6","2020-03-22","11.3","0500000US12029","0.2","12","029"],
["Duval County, Florida","3.7","12.2","2020-03-22","15","0500000US12031","2.9","12","031"],
["Escambia County, Florida","2.2","16.1","2020-03-22","19.5","0500000US12033","1.6","12","033"],
["Flagler County, Florida","4.9","14.6","2020-03-22","18.8","0500000US12035","4.1","12","035"],
["Franklin County, Florida","0.9","5.3","2020-03-22","7.6","0500000US12037","0.6","12","037"],
["Gadsden County, Florida","3.7","8.1","2020-03-22","16.4","0500000US12039","2","12","039"],
["Gilchrist County, Florida","3.5","8.1","2020-03-22","20.8","0500000US12041","0.8","12","041"],
["Glades County, Florida","1.9","3.4","2020-03-22","12.7","0500000US12043","0.3","12","043"],
["Gulf County, Florida","1.2","4.5","2020-03-22","8.8","0500000US12045","0.4","12","045"],
["Hamilton County, Florida","3.2","4.4","2020-03-22","16","0500000US12047","0.5","12","047"],
["Hades County, Florida","2.3","5.1","2020-03-22","16.3","0500000US12049","0.3","12","049"]

```

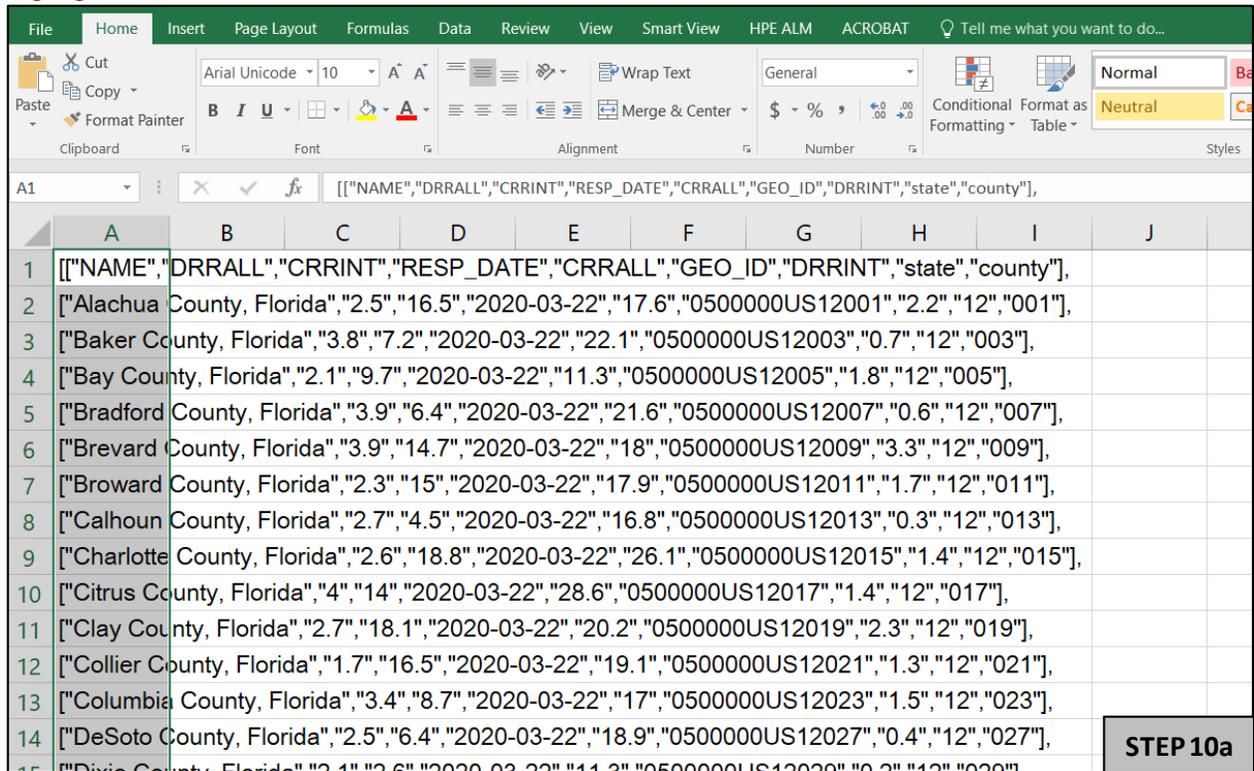
STEP 8

- Step 9:** Copy all of these results into MS Excel:
- a) Press Ctrl-A to select all contents on the page
 - b) Press Ctrl-C to copy
 - c) Paste into the first cell of MS Excel (Ctrl-V)

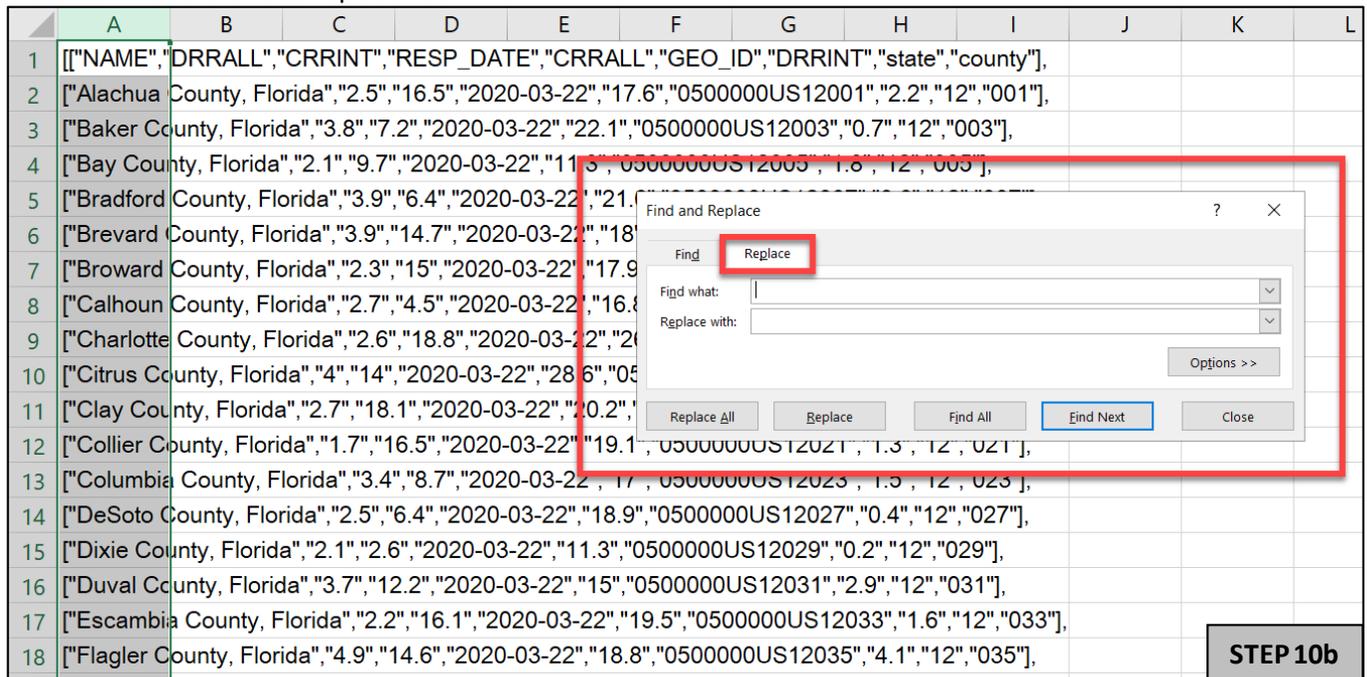


Step 10: Next, we need to format the results in Excel by removing the comma between County and Florida.

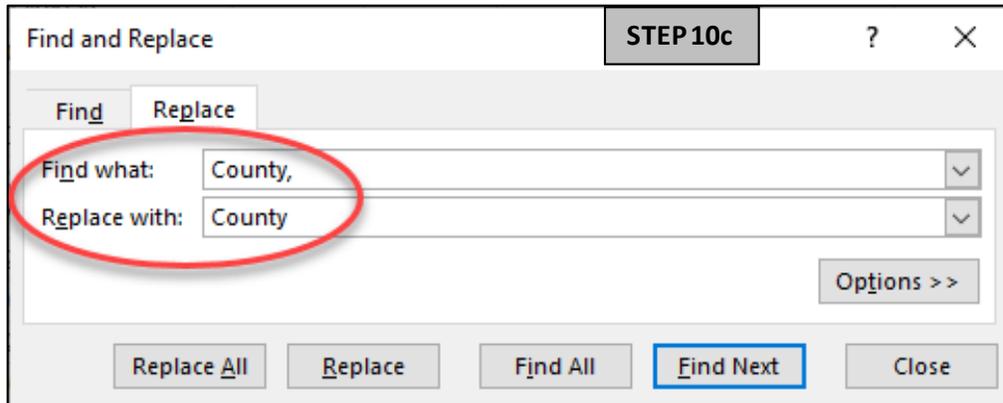
a) Highlight Column A in Excel.



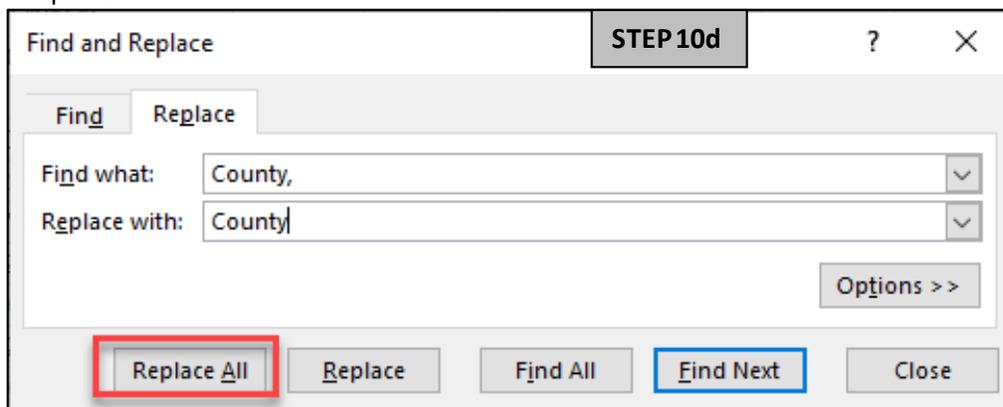
b) Press Ctrl- F and click the Replace Tab



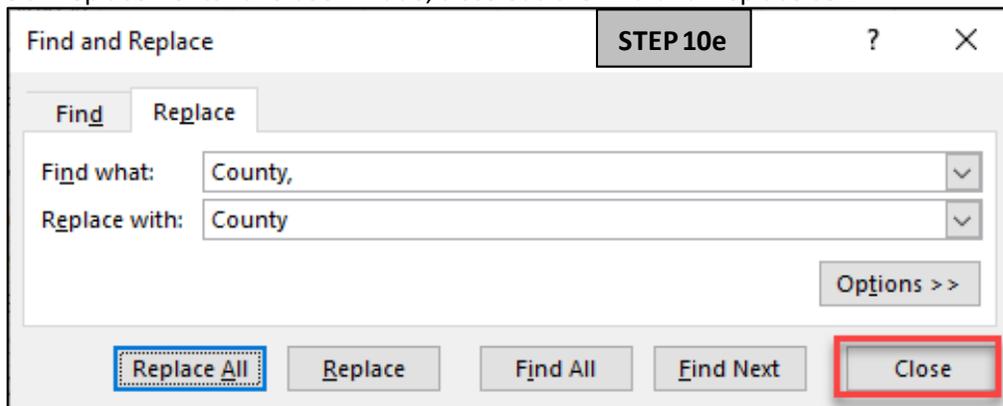
- c) Enter the following:
- a. Find what: **County,**
 - b. Replace: **County**



- d) Click Replace All.

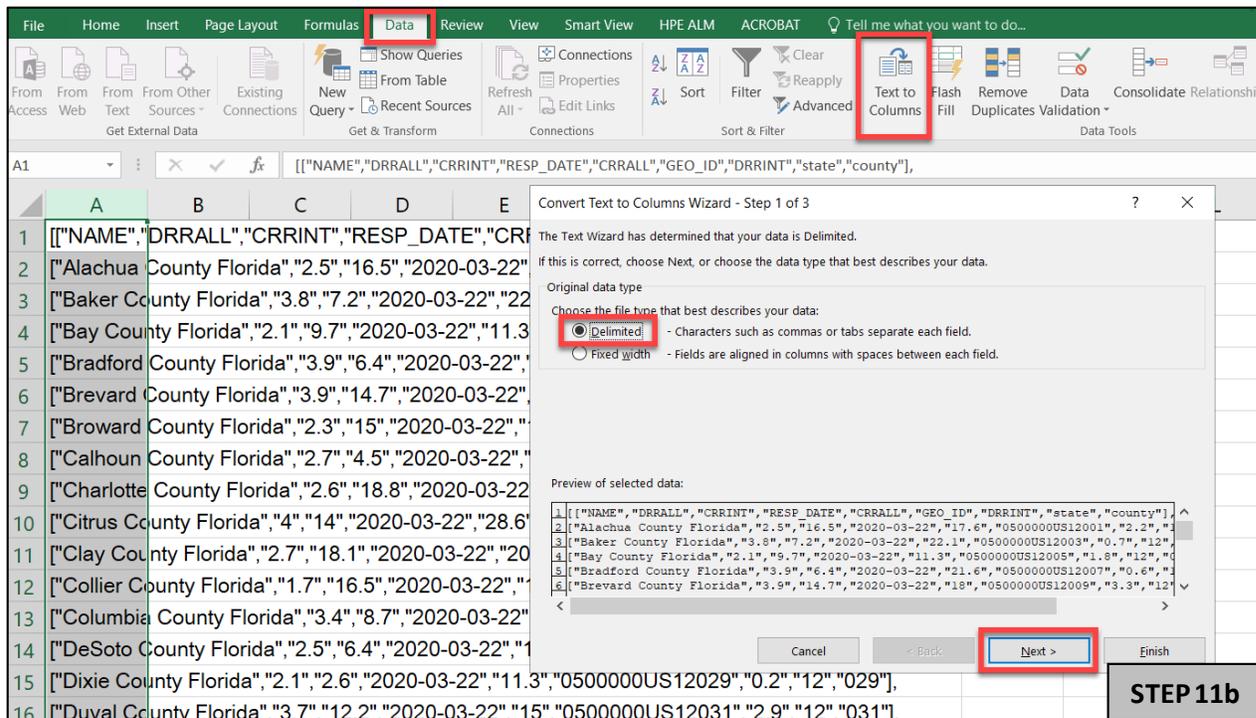


- e) Once all replacements have been made, close out the Find and Replace box.

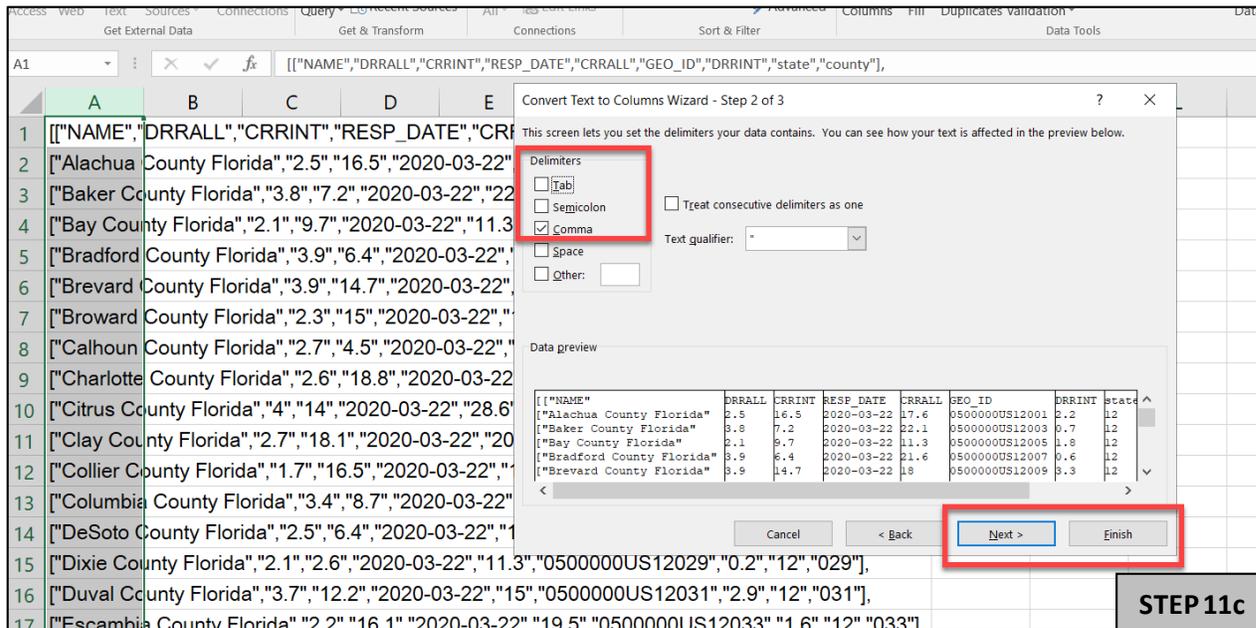


Step 11: Now convert the text to columns.

- a) Highlight column A again.
- b) Click Data -> Click Text to Columns -> Select Delimited -> Click Next.



- c) Uncheck Tab and Check Comma -> Click Next -> Click Finish.



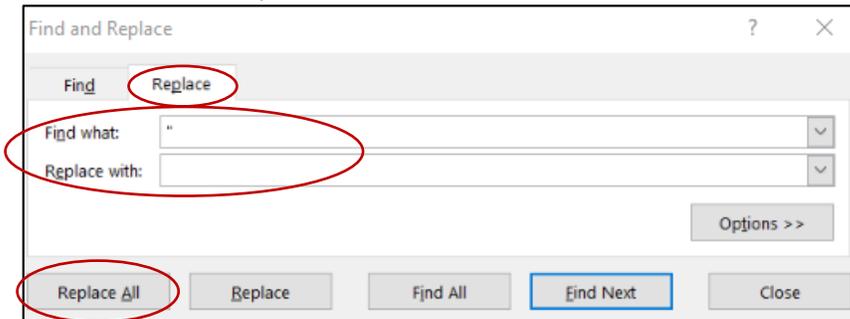
Now, we have our table, but we need to clean up the quotation marks and brackets.

	A	B	C	D	E	F	G	H	I
1	["NAME"	DRRALL	CRRINT	RESP_DATE	CRRALL	GEO_ID	DRRINT	state	county]
2	["Alachua County Florida"	2.5	16.5	3/22/2020	17.6	0500000U	2.2	12	001]
3	["Baker County Florida"	3.8	7.2	3/22/2020	22.1	0500000U	0.7	12	003]
4	["Bay County Florida"	2.1	9.7	3/22/2020	11.3	0500000U	1.8	12	005]
5	["Bradford County Florida"	3.9	6.4	3/22/2020	21.6	0500000U	0.6	12	007]
6	["Brevard County Florida"	3.9	14.7	3/22/2020	18	0500000U	3.3	12	009]
7	["Broward County Florida"	2.3	15	3/22/2020	17.9	0500000U	1.7	12	011]
8	["Calhoun County Florida"	2.7	4.5	3/22/2020	16.8	0500000U	0.3	12	013]
9	["Charlotte County Florida"	2.6	18.8	3/22/2020	26.1	0500000U	1.4	12	015]
10	["Citrus County Florida"	4	14	3/22/2020	28.6	0500000U	1.4	12	017]
11	["Clay County Florida"	2.7	18.1	3/22/2020	20.2	0500000U	2.3	12	019]
12	["Collier County Florida"	1.7	16.5	3/22/2020	19.1	0500000U	1.3	12	021]
13	["Columbia County Florida"	3.4	8.7	3/22/2020	17	0500000U	1.5	12	023]
14	["DeSoto County Florida"	2.5	6.4	3/22/2020	18.9	0500000U	0.4	12	027]
15	["Dixie County Florida"	2.1	2.6	3/22/2020	11.3	0500000U	0.2	12	029]
16	["Duval County Florida"	3.7	12.2	3/22/2020	15	0500000U	2.9	12	031]
17	["Escambia County Florida"	2.2	16.1	3/22/2020	19.5	0500000U	1.6	12	033]
18	["Flagler County Florida"	4.9	14.6	3/22/2020	18.8	0500000U	4.1	12	035]

Step 12: To remove the quotation marks and brackets:

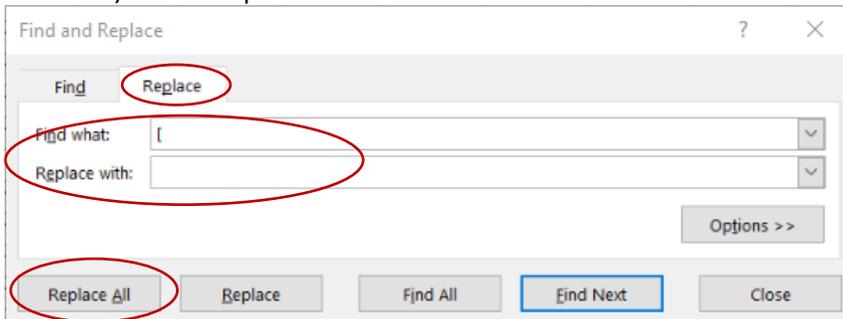
Quotation Marks

- a) Press Ctrl- F and click the Replace tab.
- b) Enter the following:
 - Find what: "
 - Replace: *(leave this blank)*
- c) Click Replace All



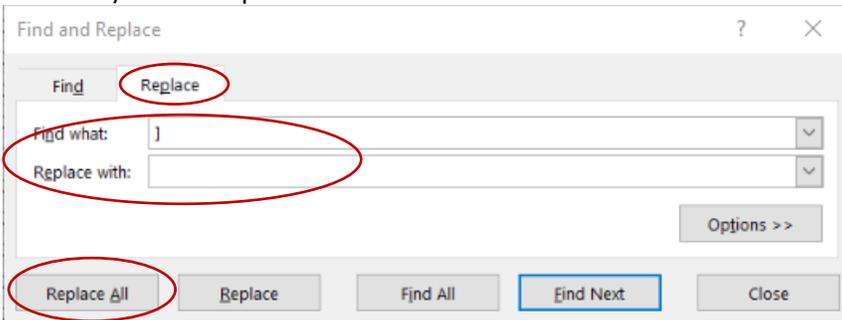
Left Brackets

- a) Press Ctrl- F and click the Replace tab.
- b) Enter the following:
 - Find what: [
 - Replace: *(leave this blank)*
- c) Click Replace All



Right Brackets

- a) Press Ctrl- F and Click the Replace Tab
- b) Enter the following
 - Find what:]
 - Replace: *(leave this blank)*
- c) Click Replace All



Now, we have our table for all counties in Florida.

	A	B	C	D	E	F	G	H	I
1	NAME	DRRALL	CRRINT	RESP_DATE	CRRALL	GEO_ID	DRRINT	state	county
2	Alachua County Florida	2.5	16.5	3/22/2020	17.6	0500000US12001	2.2	12	1
3	Baker County Florida	3.8	7.2	3/22/2020	22.1	0500000US12003	0.7	12	3
4	Bay County Florida	2.1	9.7	3/22/2020	11.3	0500000US12005	1.8	12	5
5	Bradford County Florida	3.9	6.4	3/22/2020	21.6	0500000US12007	0.6	12	7
6	Brevard County Florida	3.9	14.7	3/22/2020	18	0500000US12009	3.3	12	9
7	Broward County Florida	2.3	15	3/22/2020	17.9	0500000US12011	1.7	12	11
8	Calhoun County Florida	2.7	4.5	3/22/2020	16.8	0500000US12013	0.3	12	13
9	Charlotte County Florida	2.6	18.8	3/22/2020	26.1	0500000US12015	1.4	12	15
10	Citrus County Florida	4	14	3/22/2020	28.6	0500000US12017	1.4	12	17
11	Clay County Florida	2.7	18.1	3/22/2020	20.2	0500000US12019	2.3	12	19
12	Collier County Florida	1.7	16.5	3/22/2020	19.1	0500000US12021	1.3	12	21
13	Columbia County Florida	3.4	8.7	3/22/2020	17	0500000US12023	1.5	12	23
14	DeSoto County Florida	2.5	6.4	3/22/2020	18.9	0500000US12027	0.4	12	27
15	Dixie County Florida	2.1	2.6	3/22/2020	11.3	0500000US12029	0.2	12	29
16	Duval County Florida	3.7	12.2	3/22/2020	15	0500000US12031	2.9	12	31
17	Escambia County Florida	2.2	16.1	3/22/2020	19.5	0500000US12033	1.6	12	33
18	Flagler County Florida	4.9	14.6	3/22/2020	18.8	0500000US12035	4.1	12	35
19	Franklin County Florida	0.9	5.3	3/22/2020	7.6	0500000US12037	0.6	12	37
20	Gadsden County Florida	3.7	8.1	3/22/2020	16.4	0500000US12039	2	12	39
21	Gilchrist County Florida	3.5	8.1	3/22/2020	20.8	0500000US12041	0.8	12	41
22	Glades County Florida	1.9	3.4	3/22/2020	12.7	0500000US12043	0.3	12	43
23	Gulf County Florida	1.2	4.5	3/22/2020	8.8	0500000US12045	0.4	12	45